

Early-Entry Pathway

Welcome to North Dakota State University's Early-Entry Pathways program.

MANUFACTURING ENGINEERING

If you are interested in a degree in manufacturing engineering, you can take early-entry courses to get started on this degree. Early-entry courses listed meet the requirements or electives of this major. These courses may be used to meet your general education requirements as well. We suggest you also review the list of recommended general education courses.

Calculus I

Calculus I
MATH 165 | 4 credits
General Education Category: R

Limits, continuity, differentiation, Mean Value Theorem, integration, Fundamental Theorem of Calculus and applications.
Prereq: MATH 105, MATH 107 or placement.

General Chemistry I

CHEM 121 | 3 credits
General Education Category: S

General Chemistry I Lab

CHEM 121L | 1 credit

General Education Category: S

Matter, measurement, atoms, ions, molecules, reactions, chemical calculations, thermochemistry, bonding, molecular geometry, periodicity, and gases. Prereq or Co-req: MATH 103, MATH 107 or Math placement.

Circuit Analysis I

Circuit Analysis EE 206 | 4 credits

GE 200 for credits
General Education Category: Does not meet NDSU's general education requirements.

Linear electric circuits. Component models, circuit laws, transient analysis, design issues, computer tools. 3 lectures, 1 two-hour recitation/laboratory. Prereq: MATH 166 with a grade of C or better. Co-req: MATH 129.

General Chemistry II

General Chemistry II

Intermolecular forces, liquids, solids, kinetics, equilibria, acids and bases, solution chemistry, precipitation, thermodynamics, and electrochemistry.
Prereq: CHEM 121.

NOTES

View all pathway guides & a general education guide at >>
[**bit.ly/EE_pathways_guides**](https://bit.ly/EE_pathways_guides).

Introduction to Computing

ECE 173 | 4 credits

General Education Category: Does not meet NDSU's general education requirements.

Programming in a high level language with applications to engineering computation, analysis, and design. 3 lectures, 1 2-hour laboratory. Prereq: MATH 103 or higher.

College Composition I

ENGL 110 | 3 credits

General Education Category: C

Guided practice in the reading and writing of various genres for different situations and audiences. Includes research on the web and in the library. Prereq: English placement.

College Composition II

ENGL 120 | 3 credits

ENGE 120 | 3 credits

Advanced practice in reading and writing of various genres for different situations and audiences. Includes field research, collaboration, and visual communication. Prereq: ENGL 110 or placement.

Fundamentals of Public Speaking

Fundamentals of COMM 110 | 3 credits

General Education Category: C

Theory and practice of public speaking with emphasis on content, organization, language, delivery, and critical evaluation of messages.

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